## BellMate 1000/2000
## 8 Zone
# Installation and Operation Manual

BELLMATE

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# INTRODUCTION

Thank you for purchasing the Bellmate 1000/2000 series 8 zone control panel.

The system was designed to provide you, the installer, with versity and feature never before offered in a control panel. Bellmate security products over the years have always provided technically innovative quality products which have led to the 1000/2000 series being one of the most reliable on the market today. Bellmate unparalleled technical support and service reinforces our committiment to the industry.

This manual will tell you all you need to know about installing and programming the system options. Also, for client programmable features and operation mode.

## TERMINOLOGY

In order to fully understand the 1000 series 8 zone panel, you should become familiar with the terminology used throughout this manual. The following is a brief system description.

### MODES OF OPERATION

The panel may be operated in 3 modes.

1) Installation program mode: enables system parameters such as zone types (delay, instant, handover etc), to be programmed by the installer.
2) Client program mode: allows a client with a master code, the capability of programming user codes, monitor zones, entry and exit times.
3) Normal operating mode: allows day to day operation by one or more clients.

### POWER

A.C. power is supplied from the mains to the panel via a plug-pack transformer which also provides an earth connection to improve the lightning protection. A standby battery is fitted to ensure that the system continues to operated if mains power is interrupted. The A.C. power is checked continuously.

## INPUTS

A total nine end-of-line monitored inputs are provided for connection to various devices.

One or more detection devices may be connected to any of the eight end-of-line monitored zone inputs. The inputs can be programmed to suit various applications. A movement detector may require two trigger operation where as a reed switch will require normal one trigger operation. Smoke detectors and hold up switches are required to operate always and would therefore be programmed to 24 hour operation.

The control panel housing, external siren covers and many types of detectors are protected by tamper switches designed to detect attempts to disable those devices. The tamper switches are connected to the tamper input. Activation of any tamper switch or its wiring will cause an immediate alarm at any time in all modes except installation program mode. The system may be controlled by a remote keyswitch connected to the panic, keyswitch input. Panic buttons may also be connected to the same input.

## OUTPUTS

Separately fused siren outputs allow the connection of internal and external horn speakers. A latched output is provided for strobe lights and second latched output for the dialer. A resetting output for miscellaneous alarm devices such as piezo sirens.

Other outputs are provided for connection to optional 1000/2000 series equipment. Remote keyswitches and intelligent keypads can be located at remote points such as front or back doors to control the system and provide additional convience and security.

## OPERATION

In normal operating mode, the panel may be armed ready to detect intruders. It may be disarmed when the premises are occupied or switched to monitor mode to allow only selected zones to be armed simply. Thus the perimeter may be protected whlist the internal zones are ignored.

Before arming, all zone should be secured. Activation of a detection device will cause the appropriate zone to become unsecured and may cause an alarm.

After arming, the panel will ignore most detection device for the duration of the exit time to allow departure from the premises. During that time, certain audible warnings may be sounded by the beeper.

If a detector becomes faulty, the client may manually exclude the associated zone so that it is ignored and cannot generate an alarm. Manually including the zone will allow it to generate an alarm again.

After the expiry of the exit time, the system will become fully armed. An instant zone becoming unsecured will cause an immediate alarm. The alarm may be slient if the system is monitored by a central station via a 2000 series dialler or it can be audible in which case the sirens sound for the programmed reset time while the strobe lights will continue running until the panel is disarmed. When the alarm resets, any zone that is still unsecured will be automatically locked out to prevent that zone from causing further alarms. If the zone is programmed for conditional lockout, the zone will become active again when the zone is secured so that it may cause futher alarms whenever the zone becomes unsecured again. All alarms are strobed in memory so that they can be recalled after the panel is disarmed. When the clients enters the premises, the panel will ignore those zones that are programmed for delay, secondary delay or handover for the duration of the relevant entry time. Failure to disarm the panel within this time cause an alarm.

# FEATURES

- 8 fully programmable zones plus tamper and panic inputs.

- Fully programmable via control panel keypad-eliminates the need for expensive programmers or proms.

- All programming data is permanently stroed in a non-volatile eeprom-more secure than battery backed-up memory.

- Separate installation and client programming modes.

- The control panel housing has 4 separate tamper systems – keypad, wall, lid and panel impact. All tampers are monitored 24 hours a day.

- Additional security is provided by the various programming options:
  - arm via a code
  - exclude zones via a code
  - partial arming
  - extra delay zone to cater for long and short entry paths
  - handover zones

- Outputs are separately fused.

- Zone inputs can be split with two end-of-line resistors so that two pieces of equipment can both be monitored to provide max. security.

- Detectors can be programmed to alarm on 1 or 2 triggers- to avoid false alarms for sensitive zones.

- Separate monitor alarm, 24 hour alarm and auxiliary outputs.

- Different sirens sound for medical, panic, fire and zone triggers.

- Indication of unsecured zones while arming.

# 1000/2000 SERIES OPTIONAL EQUIPMENT

The following optional 1000/2000 series equipment is avaliable for use with 8 zone control panel.

## INTELLIGENT REMOTE KEYPAD

This keypad is connected via 4 wires and allows full programmablity and operation of the system with complete visual and audible feedback.

## TELEPHONE AUTO-DIALLER

This is a plug in device and is fully programmable from the control panel's keypad. It is capable of automatically communicating information to most common digital receivers and/or to the client's home over a normal telephone line.

# INSTALLATION

## PACKING LIST

- 1 x 1000/2000 8 Zone Control Panel
- 12 x 2k2 ohm Resistors
- 1 x Instruction Manual
- 1 x Mounting Diagram
- 4 x Mounting Screws
- 2 x Spare Fuse

## INPUTS

The control panel contains 9 monitored inputs:

8 x Fully Programmable Zones (Terminal 27–38)

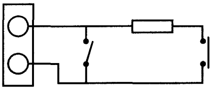
1 x Tamper/Panic (Terminal 22, 23)

Each zone must be terminated with a 2200 ohm End-Of-Line resistor.

1 x Key Switch Inputs (Terminal 24)

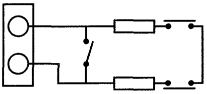
However, if there are two detection loops being used for any one zone input, then cable security may be provided on both loops as shown in diagrams below. Each pair of zones share a common terminal.

ORDINARY ZONE CONNECTION



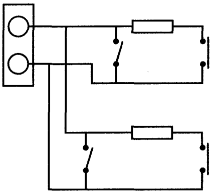
R=2K2

SERIES ZONE CONNECTION



R=1K2

PARALLEL ZONE CONNECTION



R=4K7

The Tamper input is wired in an identical manner to the zones. Thus it must be fitted with a 2K2 End-Of-Line resistor. If you have 2 external siren covers, each siren can be individually monitored by wiring as described above for the zone inputs.

For wiring details of the remote keypads, keyswitches, panic buttons and satellite sirens, see the terminal designation card. Additional keypads may be connected in parallel.

# OUTPUTS

The 8 Zone Control Panel contains the following outputs.

### SIREN (Terminal 9,10)

Oscillating Output fused via F3 (2A) for connection of three 8 ohm horn speakers max.

### LATCHED PORT A (Terminal 17,18)

Latched dry relay output fused via F2 (1.5A).

### LATCHED PORT B (Terminal 19, +20)

For strobe light.

### RESET OUTPUT (Terminal +20, 21)

Resetting 12 volt alarm output fused via F2 (1.5A).

### DIALER OUTPUT (Terminal 43 – 50)

Connect to 8 zone external dialer. A one second low level trigger will be output if there is a trigger. (If zone dialler is enable)

### ZONE STATUS OUTPUT (Terminal 15, 16)

To LED for remote key switch.
(LED off for zone unsecured)

# POWER

The Control Panel power terminals consist of:-

### AC INPUT TERMINALS (Terminal 1,2)

For connection of the plug pack, or an AC source with the following characteristic:

@ 100mA load 16 to 22 VAC at 50-60 Hz

@ 1.0A load 16 to 18 VAC at 50-60 Hz

### 12 VOLT OUTPUT TERMINALS (Terminal +5, 6, +7, 8)

D.C. regulated output, for powering of detectors etc.

12.4 volts nominal, fused via F1 (1.5A).

### BATTERY TERMINAL (Terminal 41, +42)

For connection of a rechargeable, 12 volt sealed lead acid standby battery with a minimum capacity of 4.8Ah. The charge current is limited to 450 mA maximum.

# EARTHING

### EARTH TERMINALS (Terminal 3, 4)

For connection of the plug-pack earth wire. Extensive testing in the field and rigourous testing in the laboratory has proven that a good earth dramatically improves the ability of the control panel's electronics to continue operating when its long cable runs (aerials) are subjected to induced high voltages.

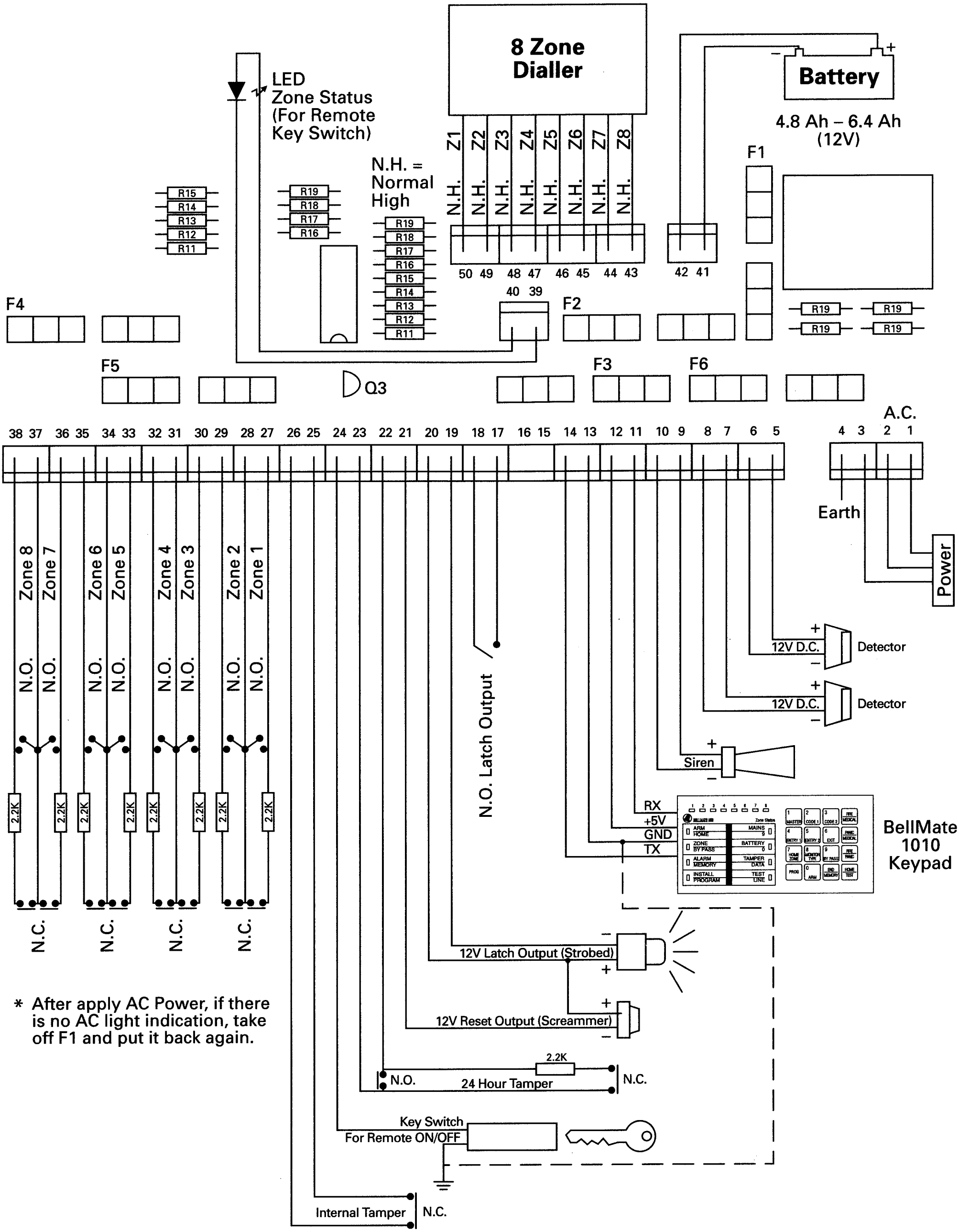
# POWER UP CHECK

This test is carried out purely to ensure the panel isn't subjected to short circuits which may cause damage when the battery is connected. The AC power is used in this test because it is overload protected.

On completion of wiring:-

1) Check for erroneous open or short circuits.
2) With the control panel lid open, apply AC power. If there are any sirens or piezo alarms connected, these should sound. The control panel's beeper will also sound.
3) Test complete. You are now ready to commence programming.

# BELLMATE 1000/2000 WIRING DIAGRAM



* After apply AC Power, if there is no AC light indication, take off F1 and put it back again.

# CONTROLS AND INDICATIONS

## KEYPAD

The keypad consists of 16 buttons, 16 status lights and an internal beeper. Each button is used for four purposes.

a) To enter a number
b) To select an installation programming option
c) To select a client programming option
d) To select a command

The PROG button is used to begin any programming sequence.

PROG

The END button is used in all cases to signify the end of the button sequence just pressed.

END
MEMORY

## AUDIBLE INDICATIONS

Every time a button is pressed the panel responds with a very brief beep in acknowledge.

The beeper is also used to indicate wether the entry was valid or invalid. For example, whenever end is pressed, all the buttons pressed before it are checked to see whether they are valid. If they are valid, the response will be 3 short beeps.

## VISUAL INDICATIONS

The panel has 16 indicator lights surrounding the keypad. Each light has three basic states to indicate function. These are:-

☐ **Off** ▨ **On** ✳ **Flashing**

☐ ARM
HOME

☐ The panel is disarmed.

▨ The panel is armed.

✳ The panel is in home mode.

☐ ALARM
MEMORY

☐ No alarms

▨ Alarm memory mode is selected.

✳ An alarm has occured.

**☐ ZONE / BY PASS**

☐ No zones are excluded.

▨ The panel is in exclude mode.

\|/
▨ A zone has been exclude.
/|\

**MAINS / 9 ☐**

▨ The mains power supply is connected and turned on.

☐ The mains power is disconnected or turned off.

**☐ INSTALL / PROGRAM**

☐ The panel is in normal operation mode.

▨ The panel is in installation program mode.

\|/
▨ The panel is in client program mode.
/|\

**TAMPER / DATA ☐**

☐ The control panel's tamper is secured.

▨ The tamper of the panel is unsecured or Medical, Fire or Panic has been trigged.

**BATTERY / 0 ☐**

☐ The Panel's battery is healthy.

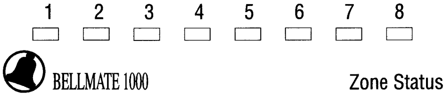
▨ The Panel's battery is low.

**TEST / LINE ☐**

☐ Not in test mode.

▨ In testing mode.

## ZONE INDICATIONS

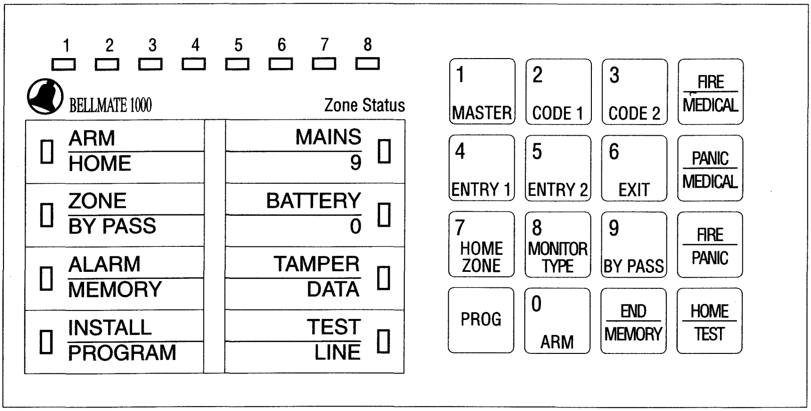


There are 8 zone indicator lights above the keypad. In normal operating mode they show the following states:-

☐ Zone secured. ▨ Zone unsecured.

As explained elsewhere in this manual, these zone lights are used to indicate other information in the memory, exclude, monitor, installation and client program modes.

# BELLMATE 1000/2000 CONTROL PANEL



# INSTALLATION PROGRAMMING

## ACCESS TO THE INSTALLATION PROGRAM MODE

The installation program mode is entered whenever programming options are to be changed by the installer. It can be accessed in three ways:-

1) By depressing the **END** button on power-up, the panel will be automatically programmed with the factory set default values

2) By depressing the **PROG** button on power up, the panel will retain all previous values were programmed.

3) By entering **PROG 1111 END** if the panel is currently in the client program mode.

## HOW TO PROGRAM

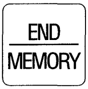
Programming the BellMate **1000/2000** Series 8 Zone Control Panel is achieved via the keypad. Every time a button is pressed the panel responds with a very brief beep in acknowledgement.

The **PROG** button is used to begin any programming sequence.

The numeric keys are used to enter:

1) Programming options.
2) Programmed values.

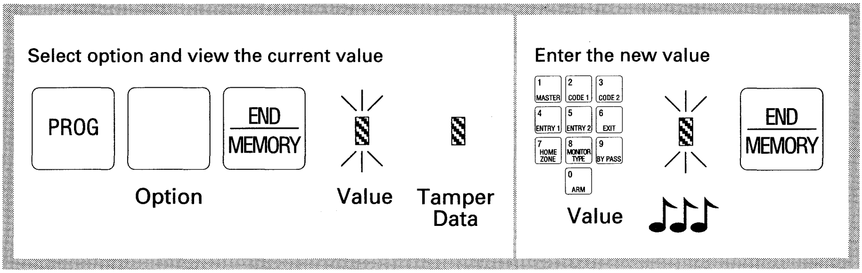
The **END** button is used in all cases to signify the end of the button sequence just pressed.



Visual feedback of the value programmed is achieved by illuminating the zone, the particular type of indications are described for each option in the following pages.

**INSTALLATION PROGRAMMING OPTIONS CAN BE CARRIED OUT IN ANY SEQUENCE.**

All programming operations follow the pattern shown below:


Select option and view the current value

Enter the new value

# ZONE OPTIONS

Each zone can be independantly programmed to any one of the six following options.

- Instant
- 1st delay
- 2nd delay
- Handover
- 24 hour
- Two trigger

* *Options cannot be deleted, only changed by the selection of another option.*

Example of a zone assigment...

| **Zone** | **Zone assignment** | **Options** |
|---|---|---|
| Zone 1 | Garage door (Long Delay) | Secondary Delay |
| Zone 2 | Front door (Short Entry) | Delay |
| Zone 3 | Hallway Detector | Handover |
| Zone 4 | Perimeter Reeds | Instant |
| Zone 5 | Pir Lounge Room | Instant |
| Zone 6 | Smoke Detector | 24 Hour |
| Zone 7 | Back Door (Short Entry) | Delay |
| Zone 8 | Perimeter Vibration Sensor | Instant |

If more than one zone is required to be programmed for a particular option, say zone 2, zone 3 and zone 4, then enter:

**PROG *(OPTION)* END 2 3 4 END**

As each zone is programmed, the corresponding zone light is illuminated.

The following sections describes the assignment of the zone functions.

# SETTING ZONES TO INSTANT P 0 E

An instant zone triggers an alarm the moment the zone is unsecured this can only occur when the panel is armed.

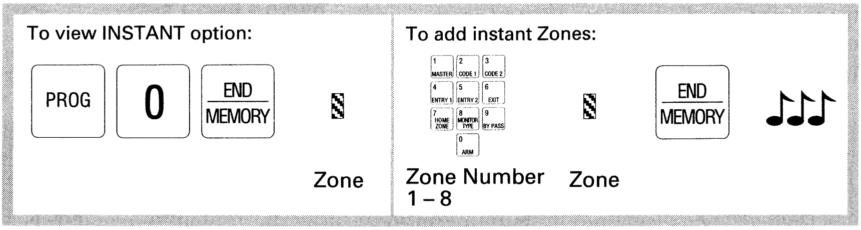
**PROG 0 END**

To set, say, zone 1 and zone 3 to be instant, enter:

**PROG 0 END 1 3 END**

*Default: Zone 2-8 instant*
*(zone lights 2-8 on)*

* Cannot set off instant zone in prog 0. Only can set off by selecting other option.



# SETTING ZONES TO 1ST DELAY P 1 E

After expiry of the exit time, a delay zone becoming unsecured, will cause an alarm at the end of entry time if the panel has not been disarmed.

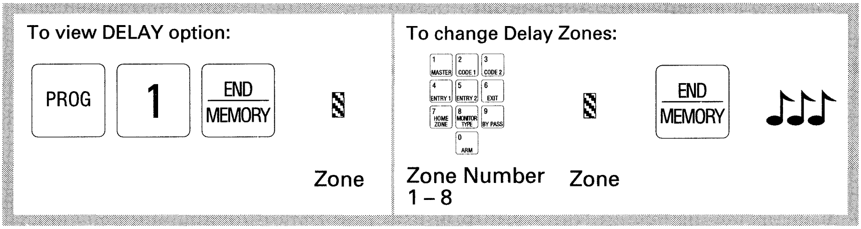
The only zones that should be programmed for delay are point of entry zones.

**PROG 1 END**

To set, say, zone 2 to be delayed, enter:

**PROG 1 END 2 END**

*Default: Zone 1 delay*
*(zone light 1 on).*



# SETTING ZONES TO SECONDARY ENTRY DELAY P 2 E

A secondary delay zone is essentially the same as a normal delay zone except that its entry time is equal to the programmed exit time. It can be used to provide additional entry time for a secondary entry path. (garage, etc.)

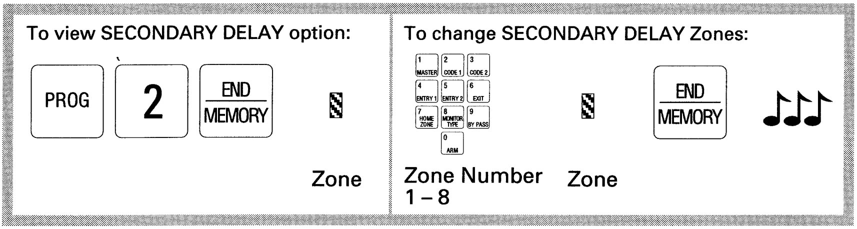
Thus a front door may be programmed for an exit time of say 60 seconds and an entry time of 20 seconds for high security. The garage door may be programmed for a secondary delay where both the entry and exit times equal the programmed time (say 60 sec.)

**PROG 2 END**

To set, say, zone 4 to be a secondary delay zone, enter:

**PROG 2 END 4 END**

*Default: No secondary zones*
*(no zone lights on)*



# SETTING ZONES TO HANDOVER P 3 E

A handover zone is a combination of a delay zone and instant zone.

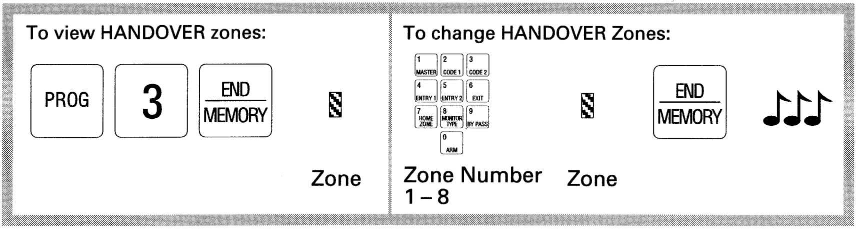
After arming, the handover zone is delayed to enable time to exit without triggering the alarm. It then automatically reverts to instant operation to provide greater security for detectors on the delay path. If a normal entry is first made through a delay zone, then all handover zones will revert to delayed operation again to enable time to enter and disarm the panel without triggering an alarm.

Handover should be selected for all zones on the entry/exit path that require an entry/exit time. Handover should not be selected for actual "point of entry" zones (eg. front or back door).

To set, say, zone 3 and zone 8 to be handover, enter:

**PROG 2 END 3 8 END**

*Default: No handover zones*
*(no zone lights on)*



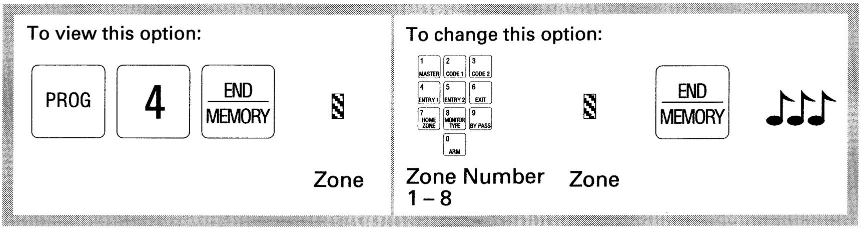
## SETTING ZONES TO TWO TRIGGER P 4 E

This option causes a zone to trigger whenever it is unsecured for greater than 200 milliseconds twice within a 5 minute period or unsecured once for greater than 10 seconds. An alarm will also occur if more than one "two trigger" zones are unsecured once each during this 5 minute period.

To set, say, zone 3 to alarm on two triggers, enter:

**PROG 4 END 3 END (LIGHT 3 ON)**

*Default: no zones two trigger*
*(no zone lights on)*



## SETTING LOCKOUT ZONE P 5 E

In order to ensure that alarm sirens reset at the end of reset time, the zone that caused the alarm must be locked out. Two options are provided for versatility, lockout and conditional lockout. It is important to understand the difference.

If a zone is set to lockout, it will generate an alarm once and once only, irrespective of whether a zone re-secures and subsequently unsecures. The zone will be locked out until the panel is disarmed.

Alternatively, if a zone is to conditional lockout (the default selection) it will alarm once when the zone becomes unsecured, but will not re-alarm if the zone remains unsecured. However, if the zone resecures, then at a later time unsecures, the panel will alarm again.

To set, say, zone 3 and 6 to lockout, enter:

**PROG 5 END 3 , 6 END**

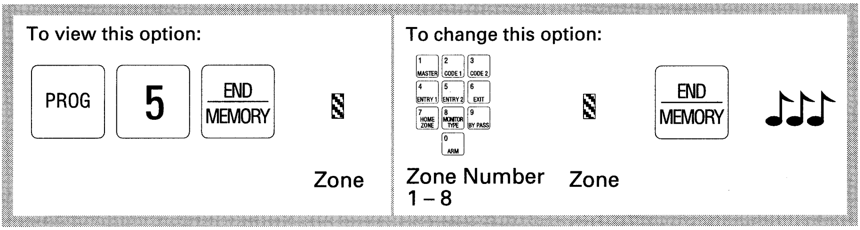
**(ZONE 3 AND 6 LIGHTS ON)**

To return zone 6 to conditional lockout, enter:

**PROG 5 END 5 END**

**(ZONE 5 LIGHTS OFF)**

*Default: All zones are conditional lockout*
*(all zone lights off)*



# SETTING ZONES TO 24 HOUR P 6 E

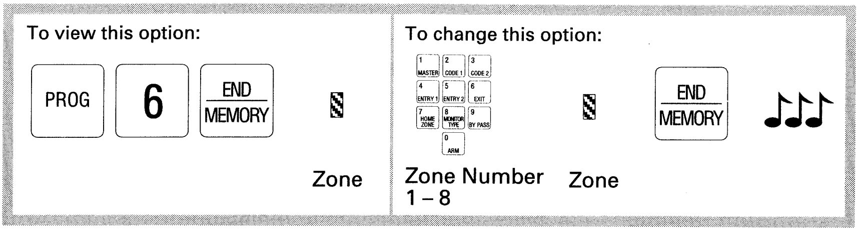
This option causes a zone to monitor in 24 hour, it is suitable for fire and smoke detector.

To set, say, zone 7 to 24 hour zone, enter:

**PROG 6 END 7 END**

**(ZONE 7 LIGHT ON)**

*Default: No zones are setting (all light off)*


To view this option:

To change this option:

# MONITOR ALARMS TO DIALLER P 7 E

This selection is indicated by the zone light. During monitor modes, zones that cause an alarm can be programmed to:

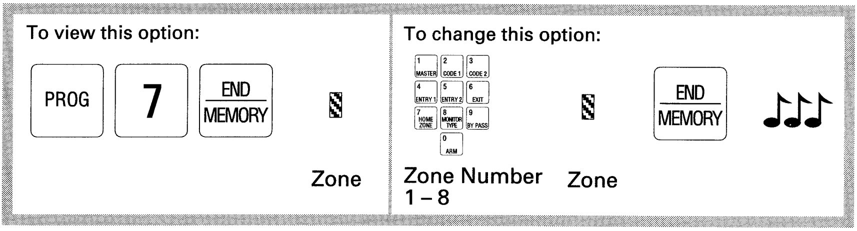
1) Not output zone alarms to dialler (all zone light off)
2) Output zone alarms to dialler (zone light on).

To set, say, zone 1 and 5 to trigger dialler, enter:

**PROG 7 END 1, 5 END**

**(ZONE 1 AND 5 LIGHT ON)**

*Default: No monitor alarms trigger the dialler. (All zone lights off)*


To view this option:

To change this option:

## HOME ALARMS ZONE TO DIALLER P 8 E

This selection is indicated by the zone light. During home modes, zones cause an alarm can be programmed to:

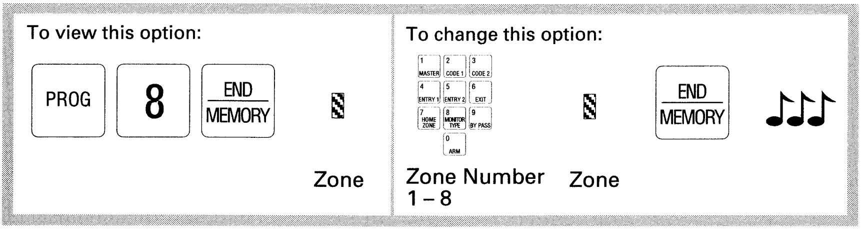
1) Not output zone alarms to dialler (all zone light off)
2) Output zone alarms to dialler (zone light on)

To set, say, zone 2 and 3 to trigger dialler, enter:

**PROG 8 END 2, 3 END**

**(ZONE 2 AND 3 LIGHTS ON)**

*Default: No home alarms trigger the dialler. (All zone lights off)*



## ENTRY WARNING BEEPS P 9 E

This selection is indicated by the zone 1 and 0 lights.

Whenever a delay zone is unsecured and entry time begins, the system's beeper may:

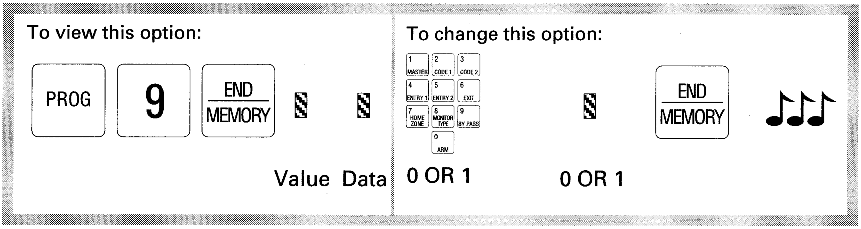
1) Beep at one second intervals for entry time (zone 1 lights on)
2) Remain slient for the duration of entry time (0 lights on)

To view or change the option, enter:

**PROG 9 END 1 END**
**(ZONE 1 LIGHT ON)**

**OR PROG 9 END 0 END**
**(0 LIGHT ON)**

*Default: Beeps at one second intervals.*



## KEYPAD ARMING P 10 E

This selection is indicated by the zone 1 and 0 lights. There are two methods of arming via a keypad:

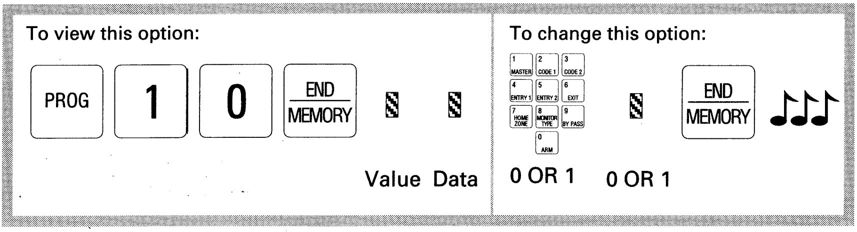
1) Single digit arming. (0 END) — zone 1 light on.
2) Arming via access code (code END) — 0 light on.

To view or change the option, enter:

**PROG 10 END 0 END**
**(0 LIGHT ON)**

**OR PROG 10 END 1 END**
**(ZONE 1 LIGHT ON).**

*Default: Single digit arming. (0 light on)*



## SIREN RESET TIME P 11 E

The option sets the audible alarm's operating time.

The time is indicated by its value being flashed via the zone 1-8 / 9 / 0 lights. (eg. 10 minutes = zone 1 light followed by 0 light).

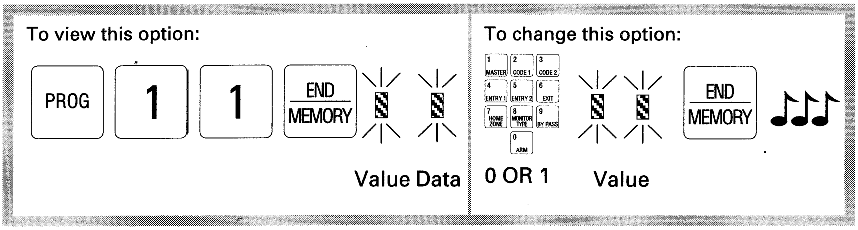
The time is programmable from 1 to 99 minutes in one minute increments.

To view or change the reset time, enter:

**PROG 11 END**
**(MINUTE IN DIGIT)**

**END (LIGHT ON ACCORDING TO THE DIGIT YOU SET).**

*Default: One minute is the factory setting.*



*for 2000 series dialler installation, please refer to 2000 Series Dialler Installation Manual.

# CHECKS BEFORE ENTERING CLIENT PROGRAM MODE

After installation programming has been completed there are some basic checks that should be performed in order to save frustration and possible embrassment.

1) Check that the tamper input is properly terminated with a 2K2 resistor.
2) Ensure rear panel tamper is secured.
3) Close the lid of the control panel.

Failure to complete these tasks will result in the control panel going into alarm as soon as programming is exited. You are now ready to exit the installation program mode and enter the client program mode. This is done by entering:

**PROG END**

Upon entering the client program mode, the program light will flashing.

# CLIENT PROGRAMMING MODE

## SETTING MASTER CODE P 1 E

Note: it is important that you enter the master code at this point.

Client program will automatically be exited if a button is not pressed within 10 minutes.

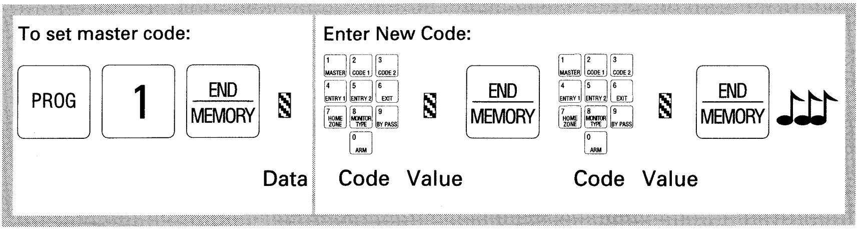
Master code is the only code you can use to program this panel.

ie: Prog 1 End code End code End
code = 4-6 digits

* Entering the master code will allow you to re-enter the client program mode if the panel has entered the normal operating mode.

**(PROG "MASTER CODE" END)**

*Default: 1 2 3 4 is the master code for the factory setting.*

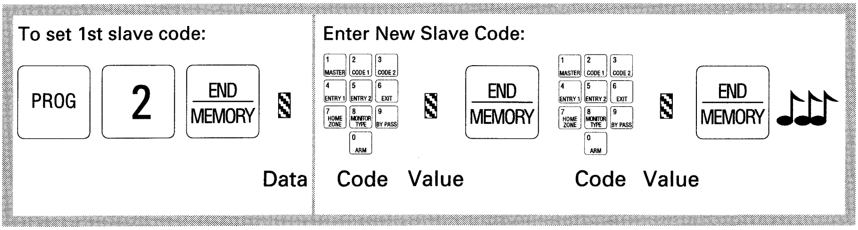


## SETTING 1ST SLAVE CODE P 2 E

This code is used for arming and disarming the system, it cannot be used to go into the programming mode. To change this code enter:

**PROG 2 END CODE END CODE END**

*Default: 1 1 1 1 is the factory setting code*



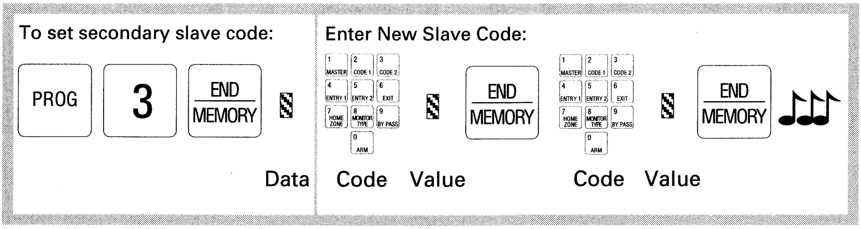
## SETTING 2ND SLAVE CODE P 3 E

This code is used for arming and disarming the system, it cannot be used to go into the programming mode.

To change this code enter:

**PROG 3 END CODE END**
**CODE END**

*Default: 2 2 2 2 is the factory setting code*



## SETTING 1ST ENTRY DELAY TIME P 4 E

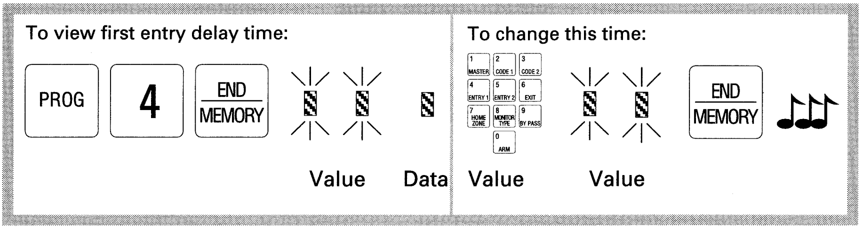
This is the time for you to enter the secured area and for you to disarm the system, this only apply to the delay, handover zone only.

To view or change the time, enter:

**PROG 4 END D1 D2 END**
**(D1,D2 IS THE SETTING TIME IN SECONDS.)**

(zone light will be on according to the value you set.)

*Default: 15 seconds is the factory setting.*



## SETTING 2ND DELAY TIME P 5 E

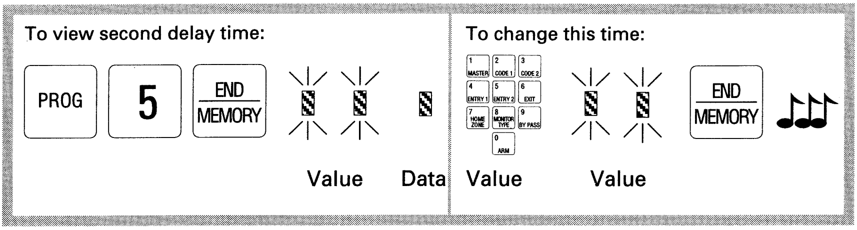
This is a long delay time specially for garage path. You can use this path to exit and entry the secured area with a longer delay setting time.

To view or change the time, enter:

**PROG 5 END D1 D2 END**

(D1,D2 is the setting time in seconds). (Zone light will be on according to the value you set.)

*Default: 60 seconds is the factory setting.*



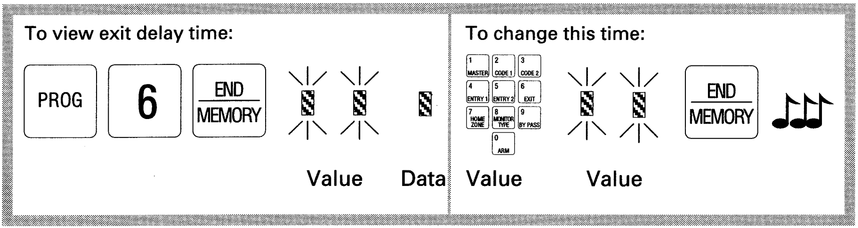
## SETTING EXIT DELAY TIME P 6 E

This is the time for you to exit the secured area after you arming the system. To view or change the setting time, enter:

**PROG 6 END D1 D2 END**
**(D1,D2 IS THE SETTING TIME IN SECONDS).**

(Zone light will be on according to the value you set.)

*Default: 60 seconds is the factory setting.*



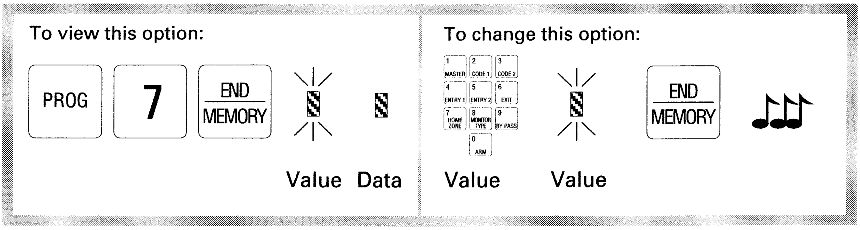
## SETTING HOME ZONE P7E

This is to select the responding zone for home mode. To view or change the setting, enter:

**PROG 7 END Z1 Z2 END**

(Z1, Z2 are the zones you want to under secured during home mode) (Z1 and Z2 light on )

*Default: No zones are under secured. (all lights off).*



## SETTING HOME MODE RESPONSE TYPE P8E

This is to select the home mode response type as follows:

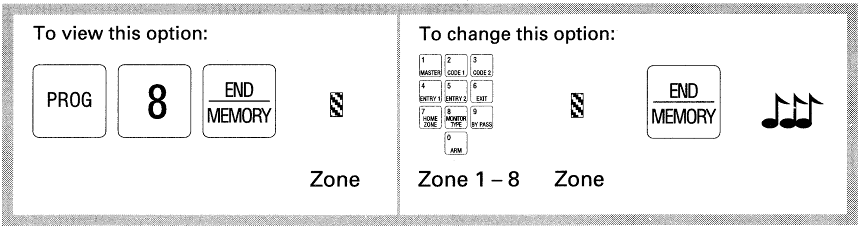
1) All alarm on (including siren, beeper, strobe)
2) Internal beeper only
3) Siren only

To view or change the setting, enter:

**PROG 8 END D1 END**
**(D1 IS 1, 2 OR 3)**

(zone light on according to d1)
1 = All alarm ON
2 = Beeper ONLY
3 = Siren ONLY

*Default: All siren on (1) is the factory setting.*



## SETTING BY-PASS ZONE P9E

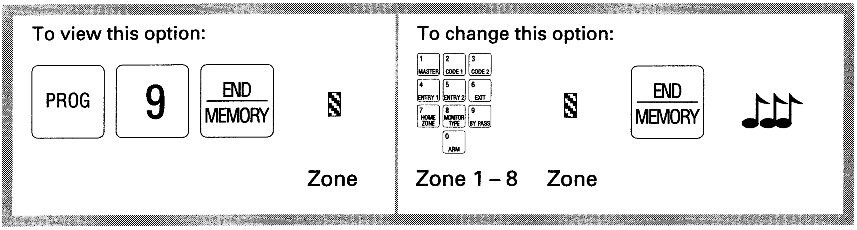
This is to select temporary uncover area during there is a faulty sensors or special events.

To view or setting zones, enter:

**PROG 9 END Z1 Z2 END**
**(Z1,Z2 ARE THE UNCOVER ZONE)**

(Z1 and Z2 light on).

*Default: No by-pass zone is setting.*
*(all lights off).*



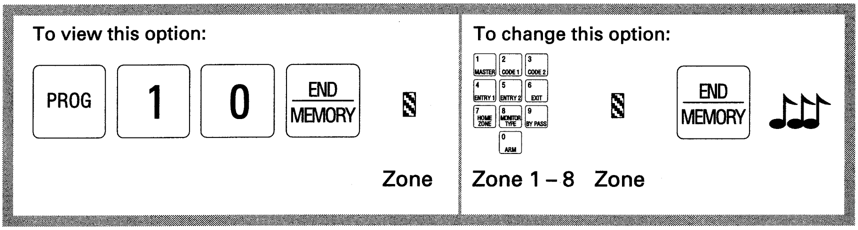
## FORCE ARM SETTING P 10 E

This is to select Force arm the system even you have any unsecure zone there, the system still will auto turn in Arm Mode.

0 For Normal

1 For Force Armed

*Default: 0*
*(zone 0 lights on).*



# OPERATING MODE

* Press **PROG END** to go into operating mode.
* Press PROG "MASTER CODE" END to go into CLIENT PROGRAM MODE.

## ARMING THE SYSTEM

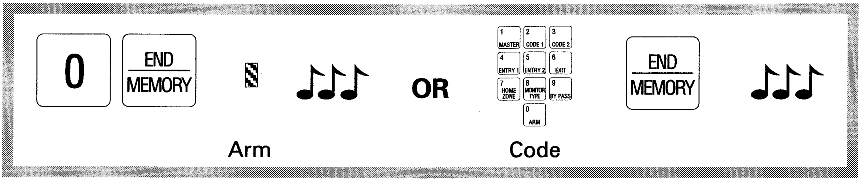
This is to set the system in fully armed condition, all zones will be under secured except by-pass zone. The system will not be armed if there is a unsecured zone. This is to avoid false alarm, you can check this by the zone indicators.

Arming system, enter:

**0 END (FOR SINGLE DIGIT ARMING)**

**CODE END (FOR CODE ARMING)**

*Default: 0 end is the factory setting.*

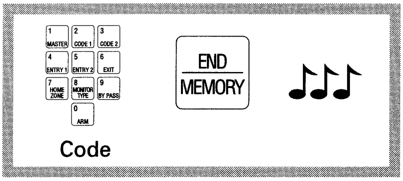


## DISARMING THE SYSTEM

This is to disarm the system or turning off the alarm sound. This action can be using master code, 1st slave code and 2nd slave code.

Disarming the system, enter:

**CODE END**



## INSPECTING ALARM MEMORY

This is for you to review what zones was triggered.

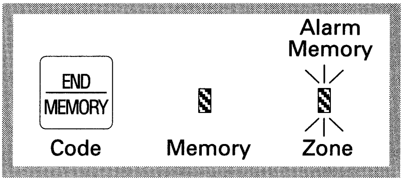
To view the status, enter:

**END**

(Alarm memory light on and the triggered zones lights flashing.)

**END**

(Go back to normal operating mode).

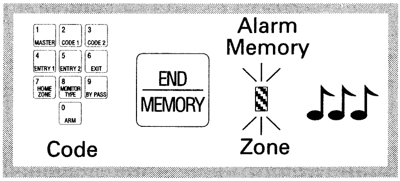


## CLEARING ALARM MEMORY

This is to clear the alarm memory status.

enter:

**CODE END**

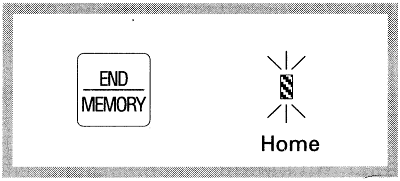


## ARMING HOME MODE

This is to let the system go into home mode, which means only home zone will be monitored, enter:

**HOME**

(Home light flashing)

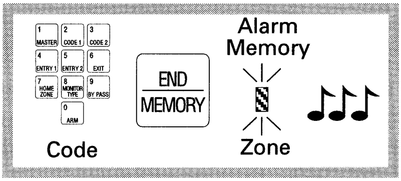


## DISARMING HOME MODE

This is to disarm the home mode, enter:

**CODE END**

(Home light off).



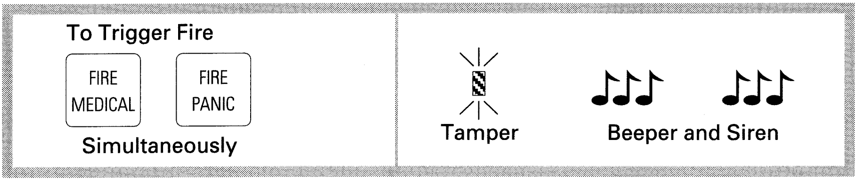
## MEDICAL, FIRE AND PANIC BUTTON

Press Medical, Medical; Panic, Panic or Fire, Fire simultaneously, there will be 3 different kind of siren output sound.

**MEDICAL MEDICAL**

or **PANIC PANIC**

or **FIRE FIRE** *Simultaneously*



# TESTING

## TESTING

To ensure reliable operation of any system, correct testing procedures should be carried out prior to handling the complete installation over to the customer. Using a digital multimeter, the following procedures are recommended for testing a 1000/2000 series 8 zone system.

## FUSES

With the power removed from the panel, set your meter to the lowest range and check that the fuses measure less than 0.5 ohms.

## VOLTAGES

All zone inputs and the tamper inputs should be terminated with a 2K2 ohm end of line resistor. When correctly secured, the voltage reading across each zone input should be 5.0 volt + or - 0.2 volts.

If the voltage reading is above or below this reading, check your detector wiring and cabling. Check that the D.C. output to the detectors is 11.2 to 12.8 volts.

## WALK TESTING

This is to test the wire connection and the panel operation as follows:

1) Enter client program mode.
2) Press **TEST** once (test light on)
3) Walk test every sensor and door contacts, a 2 second siren will be generated for each triggered.
4) Press **END** for leaving test mode.
5) Press **PROG END** to normal operation mode.

# SPECIFICATIONS

| | |
|---|---|
| Construction | 1.5mm Metal Cabinet |
| Dimensions(mm) | 226x90x330 |
| Weight | 4.0 kg |
| Plugpack | Output – 100mA at 16 to 22 VAC<br>1.0 A at 16 VAC |
| Standby Current | 45mA |
| Operating Voltage | 10 to 15 VDC |
| Rechargeable Battery | 12V, 4.8Ah — 6.5Ah |
| Battery Charge Current | 450 mA Max. |
| Fuses(5 x 20 mm) | 5 x 1.5 A fuse<br>1 x 2.0 A fuse |
| Zone Inputs | End-Of-Line Resistor=2k2 +/- 500 Ohms |
| Tamper Inputs | Same as Zone Input |
| External Siren Output | 1.5 A fused |
| Max. Number of Sirens | 3 x 8 Ohm Speakers |
| Latched Alarm (Strobe) Output | 1.5 A at 12V, fused |
| Power Output for Optional Equipment | With Battery, 12V, 1.5A fused |
| Resetting Alarm Output | 1 A at 12V, fused |
| Dialler Output | 5 mA at 5 V |

# BELLMATE 1000 SERIES PROGRAMMING SHEET

## INSTALLATION MODE

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---|---|---|---|---|---|---|---|---|---|
| P0E | | | | | | | | | Instant |
| P1E | | | | | | | | | 1st Delay |
| P2E | | | | | | | | | 2nd Delay |
| P3E | | | | | | | | | Handover |
| P4E | | | | | | | | | 2 Trigger |
| P5E | | | | | | | | | Lockout |
| P6E | | | | | | | | | 24 Hours |
| P7E | | | | | | | | | A.D. Zone |
| P8E | | | | | | | | | H.D. Zone |
| | | | | | | | | | |
| P9E | | Entry Warning Beep | | | | | 0=Silent | | 1=Beeper ON |
| P10E | | Single Digit Arming | | | | | 0=Single | | 1=Code |
| P11E | | Alarm Reset Time in Minutes | | | | | | | |

## CLIENT PROGRAM MODE

| | | | | | |
|---|---|---|---|---|---|
| P1E | Master Code | | | | |
| P2E | 1st User Code | | | | |
| P3E | 2nd User Code | | | | |
| P4E | 1st Entry Delay Time in Seconds | | | | |
| P5E | 2nd Delay Time in Seconds | | | | |
| P6E | Exit Delay Time in Seconds | | | | |

## HOME ACTIVE ZONE

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---|---|---|---|---|---|---|---|---|---|
| P7E | | | | | | | | | |
| P8E | Home Mode Response Type | | | | 0=All | | 1=Beeper Only | | 2=Siren Only |

## BY-PASS ZONE SETTING

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---|---|---|---|---|---|---|---|---|---|
| P9E | | | | | | | | | |
| P10E | Force Arm | | | | 0=Normal | | 1=Force Armed | | |

## LIMITED WARRANTY

Free Enjoy Ltd. warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment of any breach of such warranty. Free Enjoy Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its factory. This warranty applies only to defects in parts and workmanship and not damage incurred in shipping or handling, or damage due to causes beyond the control of Free Enjoy Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Free Enjoy Ltd. This warranty contains the entire warranty. Free Enjoy Ltd. neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall Free Enjoy Ltd. be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

WARNING: Free Enjoy Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.